

Comparison of MetAP2 Homologues (Mouse SEQ ID NO:13; Human = SEQ ID NO:12; Yeast = SEQ ID NO:14)

	15	16	30	31	45	46	60	61	75	76				
1	MAGEQAASFGGHLN	GDDPDDREEGTSST	AAA	KKRKKKKKG	KGAVSAVQ	QELDKES	GALVDEVA	KQLESQA	LEEKE	RRDDDEDGDG				
mouse	MAGEQAASFGGHLN	GDDPDDREEGTSST	AAA	KKRKKKKKG	KGAVSAVQ	QELDKES	GALVDEVA	KQLESQA	LEEKE	RRDDDEDGDG				
rat	MAGEEEAASSFGGHLN	RDDPDDREEGTSST	AAA	KKRKKKKKG	KGAVSAVQ	QELDKES	GTSVDEVA	KQLESQA	LEEKE	RRDDDEDGDG				
human	MAGEEEVAASGSHLN	GDDPDDREEGAAST	AAA	KKRKKKKKS	KGPSAAGE	QEPDKES	GASVDEVA	QRLERSA	LEDKER	EDDEDGDG				
yeast	-----	-----	-----	-----	-----	-----	MTDAE	IEN	SPASDLKELNLEN	VEQDQAKADESDPV				
	91	105	106	120	121	135	136	150	151	165	166	180		
mouse	DADGATGKKKKKKKK	KRGPKVQTDP	PSVPI	CDLYP	NGVFP	KQEC	EYPP	TQDGRTAAWRT	TSEEKK	KALDQASEE	1	180		
rat	DGDGAAGKKKKKKKK	KRGPRVQTDP	PSVPI	CDLYP	NGVFP	KQEC	EYPP	TQDGRTAAWRT	TSEEKK	KALDQASEE	1	180		
human	DGDGATGKKKKKKKK	KRGPKVQTDP	PSVPI	CDLYP	NGVFP	KQEC	EYPP	TQDGRTAAWRT	TSEEKK	KALDQASEE	1	180		
yeast	ESKKKKKKKKKKKS	N-----	-----	VKKI	ELLFP	DGYPEGAWM	DYHQDENL	QRTTDEE	SRYLKRD	LERA--EH	WN	DNVRKGAEI	RRVR	
	181	195	196	210	211	225	226	240	241	255	256	270		
mouse	KYVM	MSWIKPGMTMIE	ICEKLEDCSRKLI	KE NGLNAG	-----	LA	FPTGCSL	NCAAHY	PNAGDTT	VLQYDDIC	KIDFGT	GTHISGRI	IDC	
rat	KYVM	MSWIKPGMTMIE	ICEKLEDCSRKLI	KE NGLNAG	-----	LA	FPTGCSL	NCAAHY	PNAGDTT	VLQYDDIC	KIDFGT	GTHISGRI	IDC	
human	KYVM	MSWIKPGMTMIE	ICEKLEDCSRKLI	KE NGLNAG	-----	LA	FPTGCSL	NCAAHY	PNAGDTT	VLQYDDIC	KIDFGT	GTHISGRI	IDC	
yeast	RAIKDRIVPGMKLMD	IADM	IENTRKYTG	A	ENLAMEDPKS	QGIG	FPTG	GLSLNHC	AAHET	PNAGDTK	TVL	KRYEDW	M KVDYGVQVN	GNIIDS
	271	285	286	300	301	315	316	330	331	345	346	360		
mouse	AFTVT	FNPKYDILLT	AVKDATNTG	IKCAGI	DVRLCDV	GEAIQEV	ESYEVEIDG	KTYQVK	PIRN	LNHSIGPYRI	HAGK	TVP	IVKGGEAT	
rat	AFTVT	FNPKYDILLK	AVKDATNTG	IKCAGI	DVRLCDV	GEAIQEV	ESYEVEIDG	KTYQVK	PIRN	LNHSIGPYRI	HAGK	TVP	IVKGGEAT	
human	AFTVT	FNPKYDILLK	AVKDATNTG	IKCAGI	DVRLCDV	GEAIQEV	ESYEVEIDG	KTYQVK	PIRN	LNHSIGPYRI	HAGK	TVP	IVKGGEAT	
yeast	AFTVSFDPQYDNLJA	AVKDAT	YTG	IKCAGI	DVR	LTDIGEAIQEV	ESYEVEIN	GETYQVK	PCRN	LCGHSIA	PYRI	HGGK	SPIV	VNGDTT
	361	375	376	390	391	405	406	420	421	435	436	450		
mouse	RMEGEV	YVIAETFGS	TGKG	VVHDDMECSHY	MKNFDVG	HPIRLPR	TKHLLNV	INEN	FGTL	AFCRRWL	DRLG	ESKY	LMALKNL	CDLGIVDP
rat	RMEGEV	YVIAETFGS	TGKG	VVHDDMECSHY	MKNFDVG	HPIRLPR	TKHLLNV	INEN	FGTL	AFCRRWL	DRLG	ESKY	LMALKNL	CDLGIVDP
human	RMEGEV	YVIAETFGS	TGKG	VVHDDMECSHY	MKNFDVG	HPIRLPR	TKHLLNV	INEN	FGTL	AFCRRWL	DRLG	ESKY	LMALKNL	CDLGIVDP
yeast	KMEEGEHFA	ETFGS	TGKG	VVTAGGEVSHY	ARSAEDH	QWMP	TLD	S	AKNLKT	IDL	RQ	ESKY	LFALNNL	VRHGLVQD
	451	465	466	480	480	480	480	480	480	480	480	480	480	480
mouse	YPPLCDIKGSYTAQF	EHTILLRPTCKEV	VVS	RGDDY--	478									
rat	YPPLCDIKGSYTAQF	EHTILCAQP	VKKL	SA EEMTIRT	480									
human	YPPLCDIKGSYTAQF	EHTILLRPTCKEV	VVS	RGDDY--	478									
yeast	YPPLNDIPGSYTAQF	EHTILLH	HAHK	KEVVS KGDDY--	421									

Figure 1

BEST AVAILABLE COPY

MetAP2

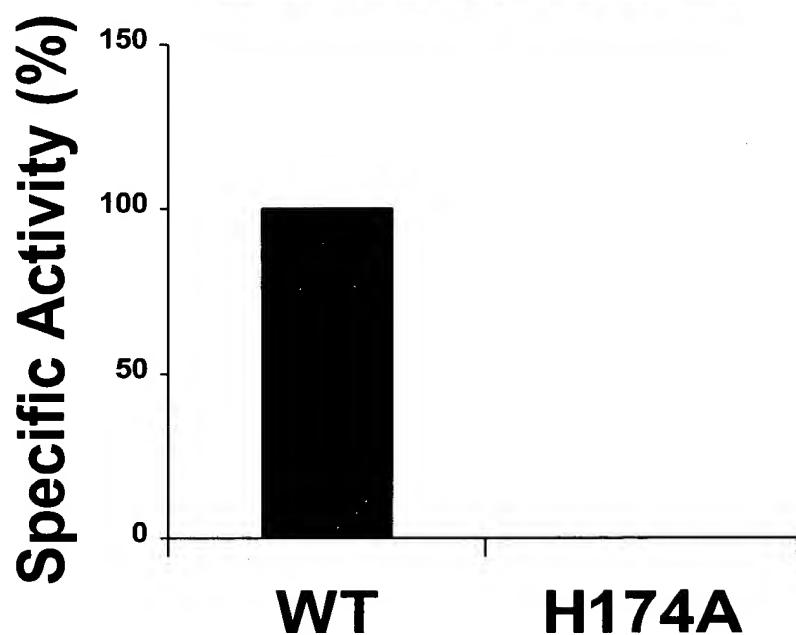
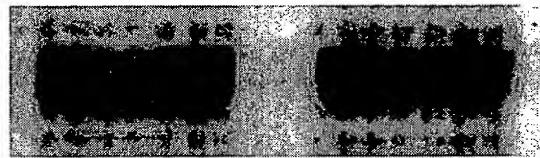
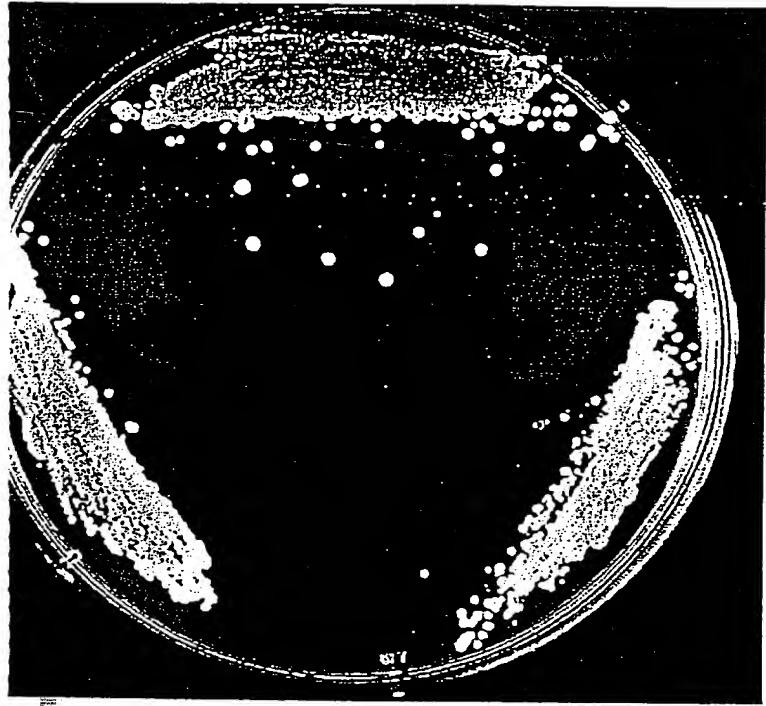
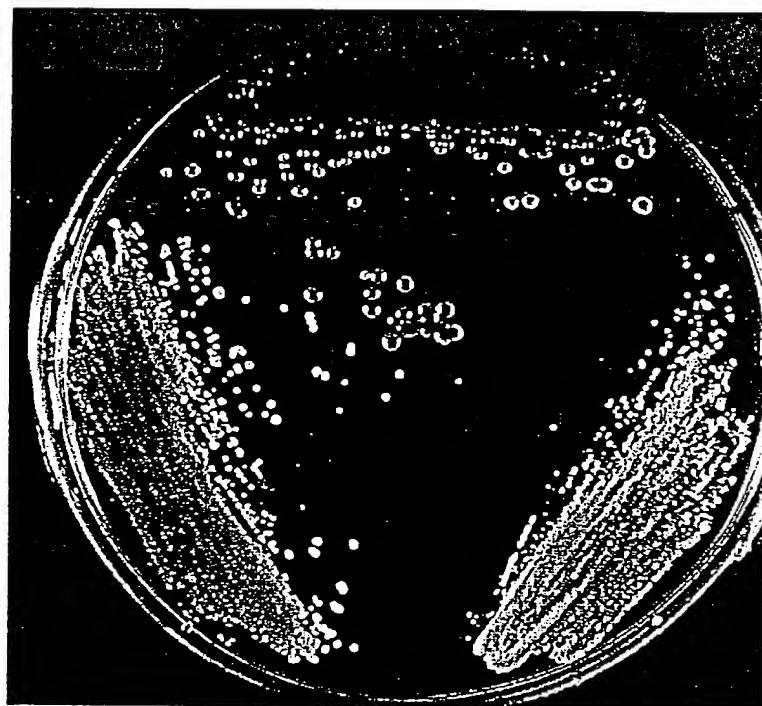


Figure 2



A. Glucose



B. Galactose

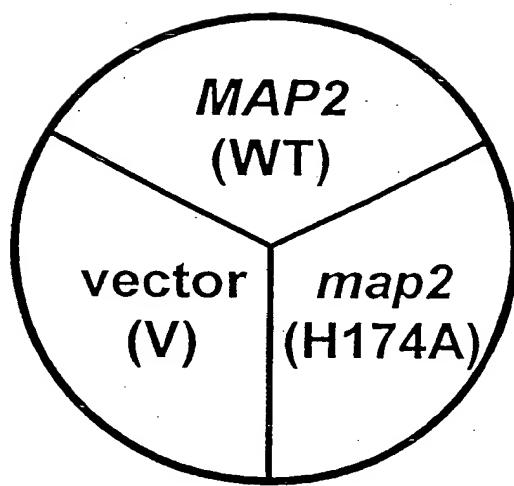


FIGURE 3

BEST AVAILABLE COPY

BEST AVAILABLE COPY

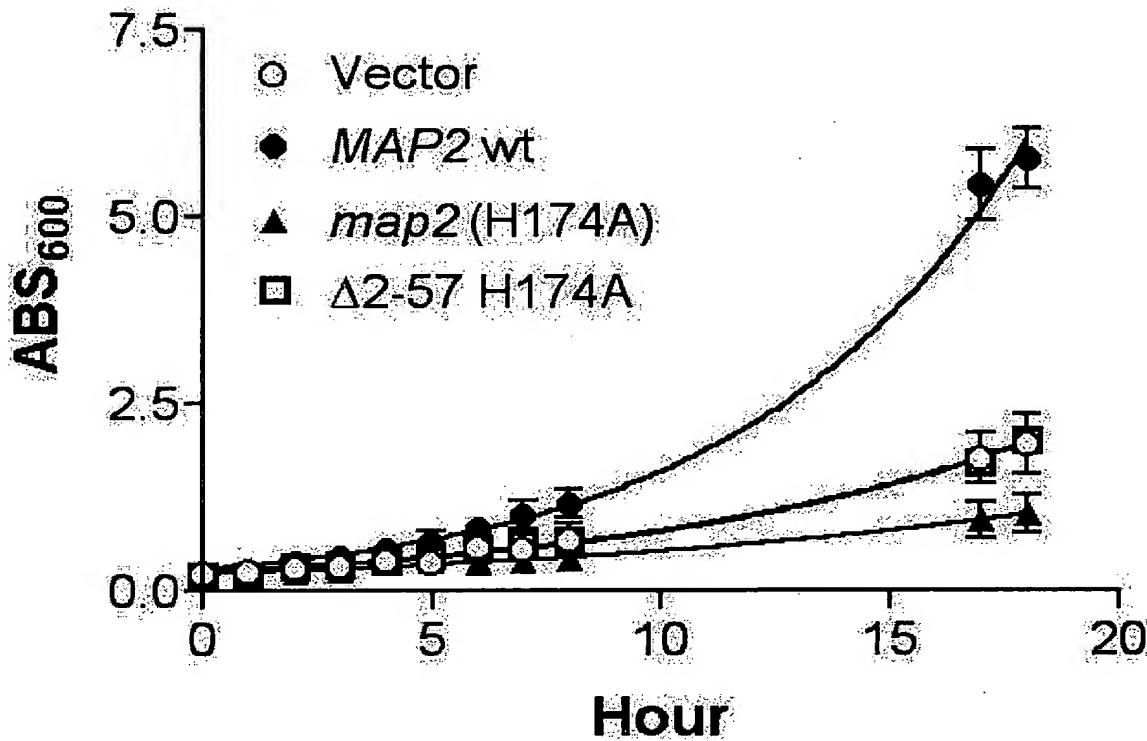
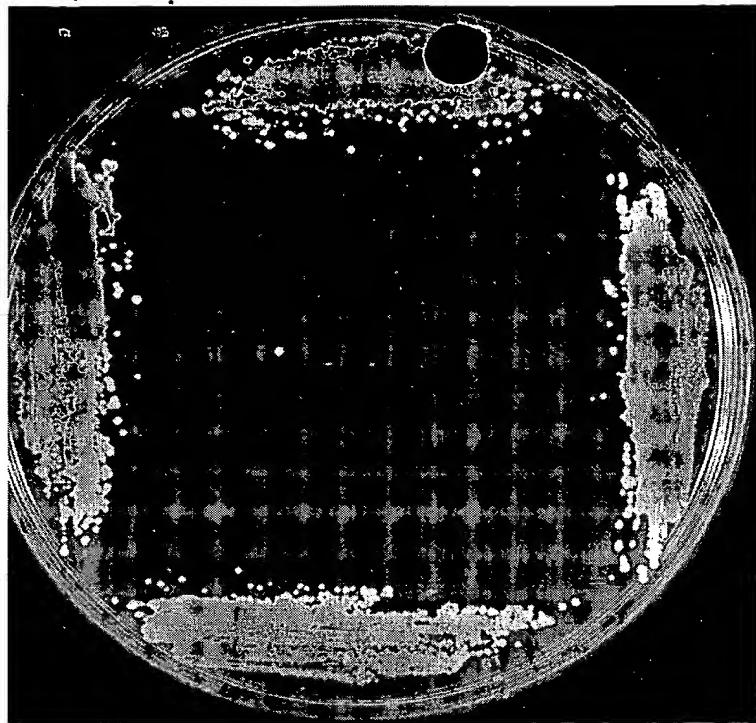
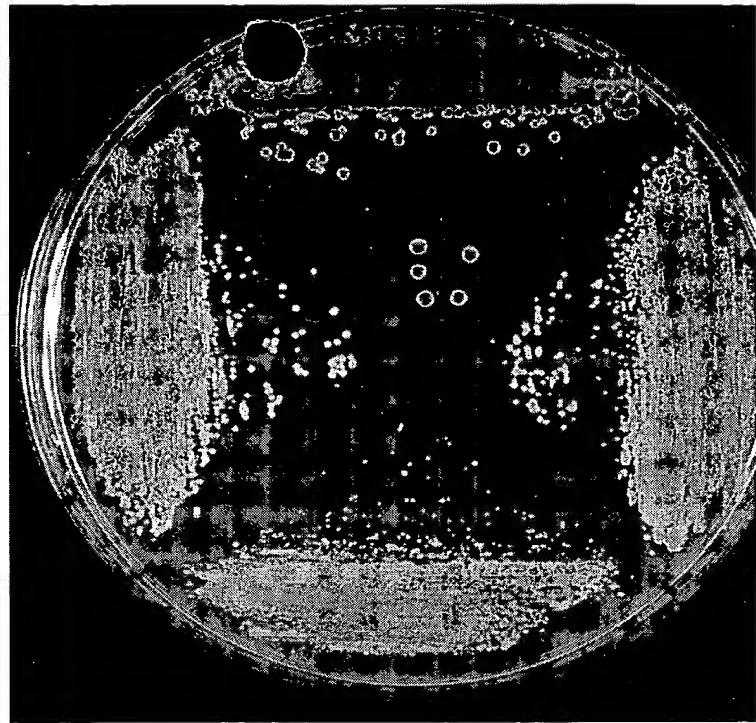


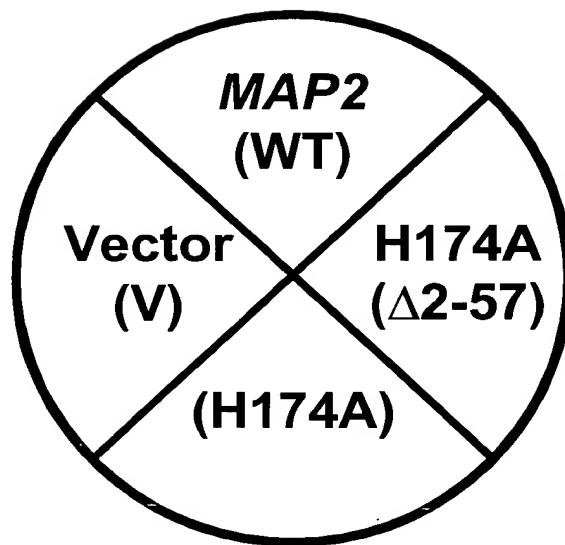
Figure 4



A. Glucose



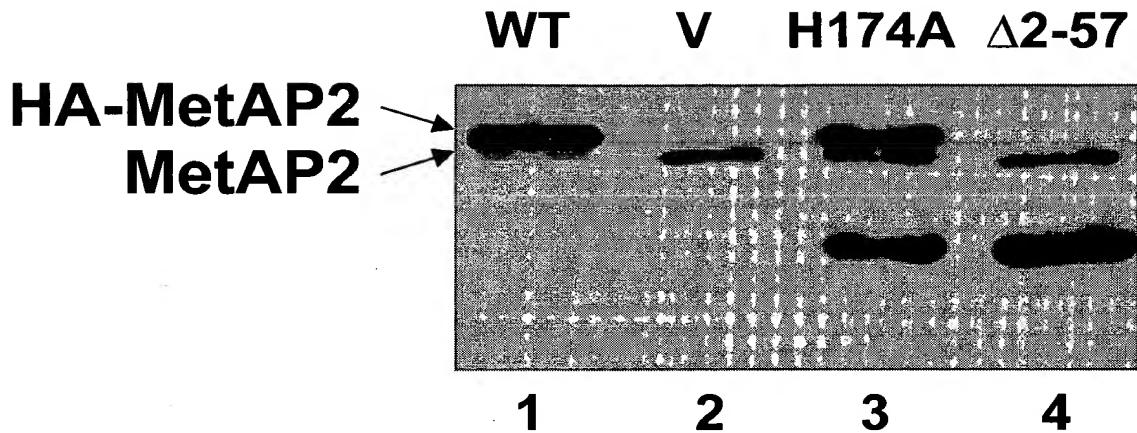
B. Galactose



H174A-MetAP2 requires N-terminal residues 2-57 for inhibition of map1 Δ growth under the GAL1 promoter.

Figure 5

BEST AVAILABLE COPY

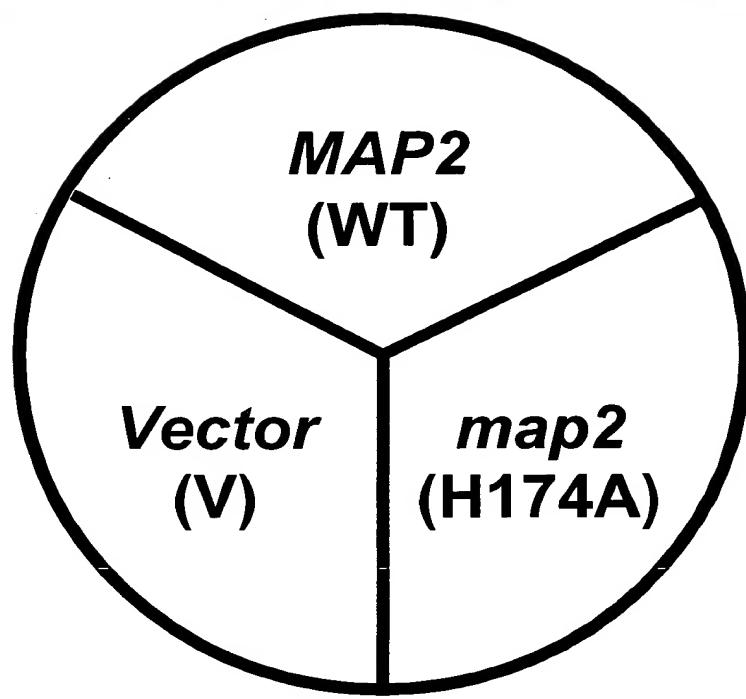
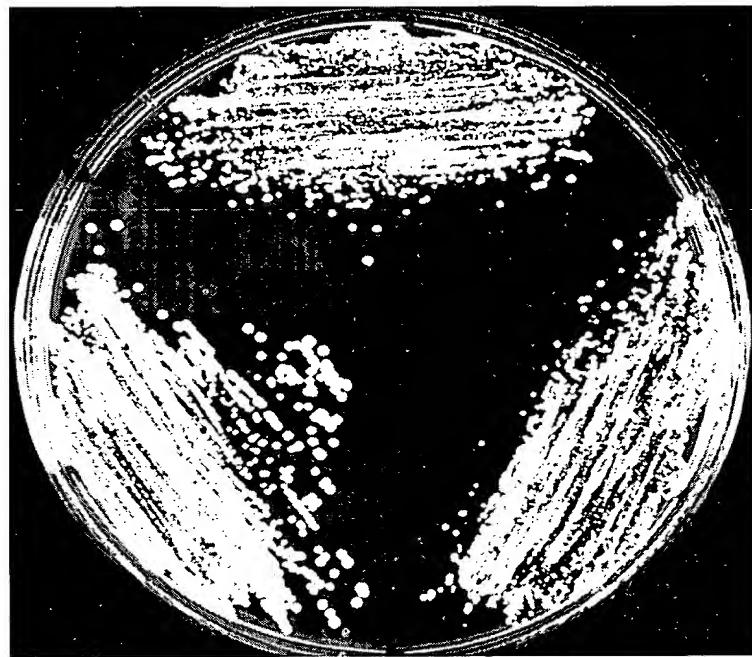


The steady state levels of each MetAP2 construct are comparable. Immunoblot comparison of HA-MetAP2 wt, HA-MetAP2 H174A, and MetAP2 Δ2-57 H174A steady state levels in map1Δ.

Figure 6

BEST AVAILABLE COPY

FIGURE 80 - REFERENCE



Overexpression of H174A-MetAP2 under the GPD promoter does not inhibit the growth of map2Δ

Figure 7

BEST AVAILABLE COPY

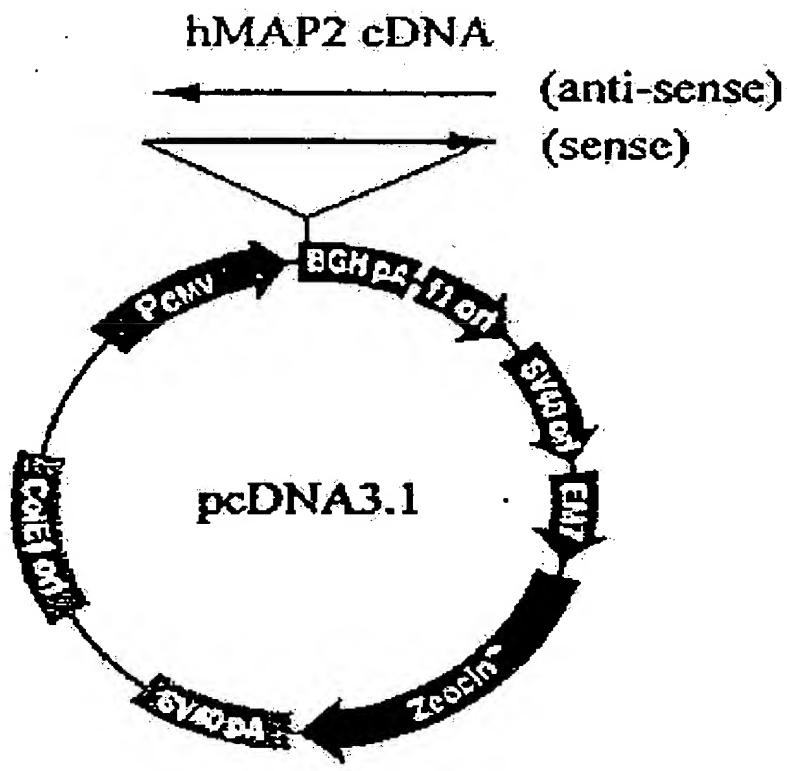


Figure 8

BEST AVAILABLE COPY

BEST AVAILABLE COPY

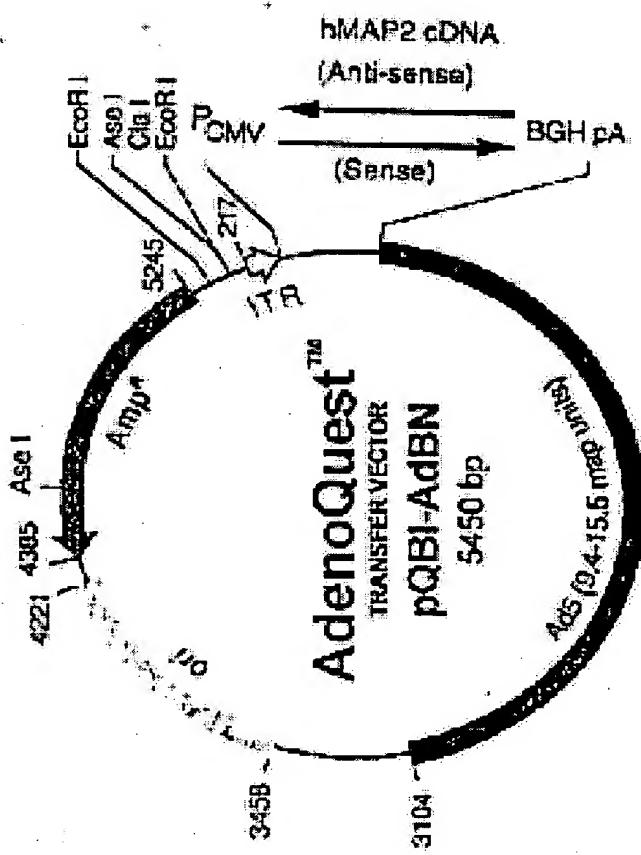
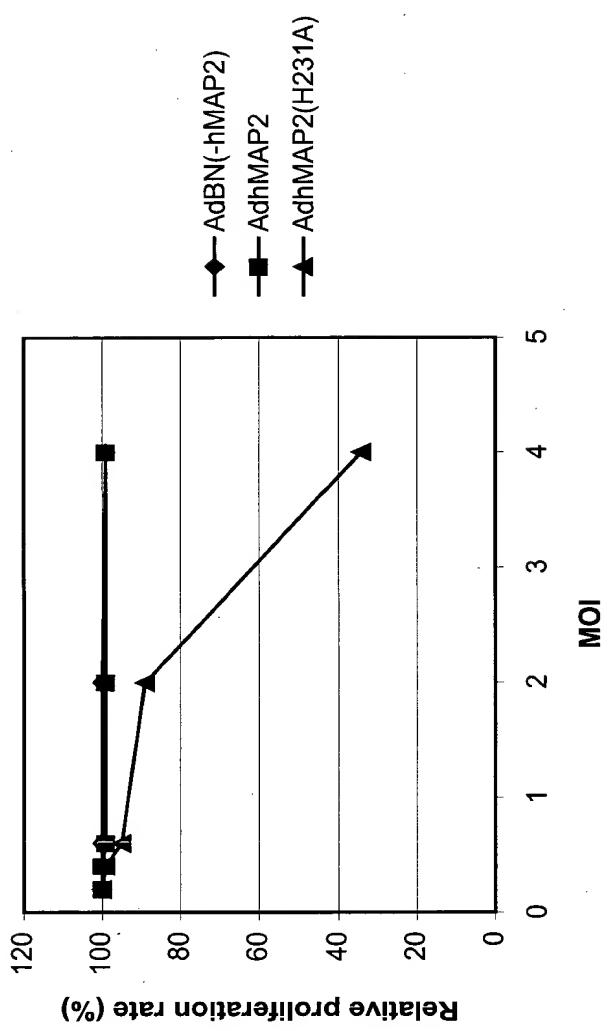


Figure 9

Figure 10



BEST AVAILABLE COPY

B

A

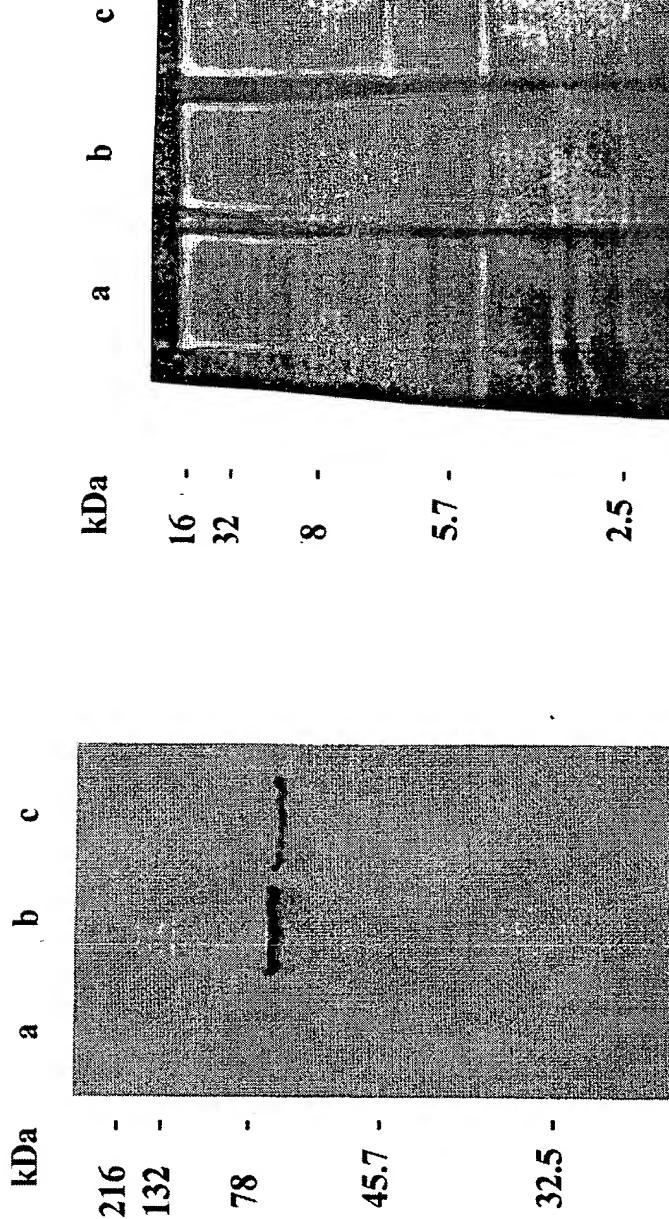


Figure 11